PATENT
0933-0170P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: PENTTILÄ, Merja et al.   Conf.:   Unknown

Appl. No.: NEW   Group: Unknown

Filed: September 18, 2001   Examiner: Unassigned

For: PROCESS FOR PARTITIONING OF PROTEINS

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION CONCURRENT WITH THE
FILING OF A NEW PATENT APPLICATION)

Assistant Commissioner for Patents   September 18, 2001
Washington, DC 20231

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I.   LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

☒   Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

☐   This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

III. <u>CONCISE EXPLANATION OF THE RELEVANCE</u>
   (check at least one box)

   a.   ☒   **DOCUMENTS IN THE ENGLISH LANGUAGE**

        The attached patents, publications, or other
        information in the English language do not require
        a statement of relevancy.

   b.   ☐   **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

        A concise explanation of the relevance of all
        patents, publications, or other information listed
        that is not in the English language is as follows:

   c.   ☒   **ENGLISH LANGUAGE SEARCH REPORT**

        An English language version of the search report
        or action that indicates the degree of relevance
        found by the foreign office is attached, thereby
        satisfying the requirement for a concise
        explanation. See MPEP 609(A)(3).

   d.   ☒   **OTHER**

        The following additional information is provided
        for the Examiner's consideration.

        Finnish Search Report attached hereto.

Docket No. 0933-0170P

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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0933-0170P

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Enclosures: ☒ Form PTO-1449(s)

☒ Documents

☒ Foreign Search Report

☐ Fee

☒ Other: International Search Report

(Rev. 01/22/01)

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Form PTO-1449		ATTY DOCKET NO. 0933-0170P	APPLICATION NO. New
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		APPLICANT PENTTILÄ, Merja et al.	
		FILING DATE September 18, 2001	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
	WO 9 2 0 7 8 68	May 14, 1992	WIPO				
	WO 9 4 1 8 3 30	August 18, 1994	WIPO				
	WO 9 4 0 4 6 73	March 3, 1994	WIPO				

OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.

	✓	HAN et al., "Effects Of Salts And Poly(ethylene Glycol)-palmitate On The Partitioning of Proteins…", *Colloids and Surfaces B: Biointerfaces*, Vol. 9, 1997, pp. 109-116.
	✓	HACHEM et al., "Hydrophobic Partitioning Of Proteins In Aqueous Two-phase Systems, *Enzyme and Microbial Technology*, Vol. 19, 1996, pp. 507-517.
	✓	FRANCO et al., "Conservative Chemical Modification of Proteins to Study the Effects of a Single Protein…", *Biotechnology and Bioengineering*, Vol. 49, 1996, pp 290-299.
	✓	KUBOI et al., "Evaluation Of Surface Net And Local Hydrophobicities During Acid- And Salts-Induced Conformational Change Of Cytochrome C…", *Journal of Chemical Engineering of Japan*, Vol. 28, No. 1, 1995, pp. 97-102.
	✓	KUBOI et al., Evaluation of Surface Properties and Partitioning of Proteins in Aqueous Two-Phase Extraction Systems", *Solvent Extractions Res. Dev. Japan*, Vol. 1, 1994, pp. 42-52.
	✓	NAKARI-SETALA et al., "Differential Expression Of The Vegetative And Spore-Bound Hydrophobins Of Trichoderma Reesei—Cloning…", *European Journal of Biochemistry*, Vol. 248, No. 2, Sept. 1, 1997, pp. 415-423 **(abstract only)**.
	✓	NAKARI-SETALA et al., "Genetic and Biochemical Characterization of the Trichoderma Reesei Hydrophobin HFBI", *European Journal of Biochemistry*, Vol. 235, No.1-2, Jan. 15, 1996, pp. 248-255 **(abstract only)**.
	✓	BODHANKAR et al., "Effect of Surface Active Additives on Partitioning of Proteins and Enzymes in Poly(ethylene glycol)/Dextran Aqueous Two-Phase Systems", *J. Chem. Technol. Biotechnol.*, Vol. 73, 1998, pp. 251-258.
	✓	SVENSSON et al., Aqueous Two-Phase Systems Containing Self-Associating Block Copolymers Partitioning of Hydrophilic and Hydrophobic Biomolecules", *Journal of Chromatography A*, Vol. 839, 1999, pp. 71-83.
		CARLSSON et al., "Effects Of Fused Tryptophan Rich Peptides To A Recombinant Protein A Domain On The Partitioning…", *Journal Of Chromatography A*, 1996, pp. 107-117.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

GMM/jeb